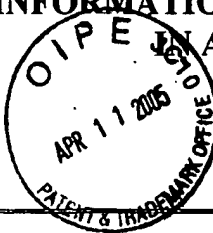


INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)				ATTY. DOCKET NO. 50277-1755	SERIAL NO. 10/006,605	
				APPLICANT: Wayne Smith et al.		
				FILING DATE: December 5, 2001	GROUP: 2161	
U.S. PATENT DOCUMENTS						
Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (If known)			
Mn		5,261,098		Katin et al.	11-09-1993	(text provided on CD-ROM)
Mn		5,276,870		Shan et al.	01-04-1994	(text provided on CD-ROM)
Mn		5,404,506		Fujisawa et al.	04-04-1995	(text provided on CD-ROM)
Mn		5,418,946		Mori	05-23-1995	(text provided on CD-ROM)
Mn		5,444,842		Bentson et al.	08-22-1995	(text provided on CD-ROM)
Mn		5,548,755		Leung et al.	08-20-1996	(text provided on CD-ROM)
Mn		5,551,027		Choy et al.	08-27-1996	(text provided on CD-ROM)
Mn		5,560,005		Hoover et al.	09-24-1996	(text provided on CD-ROM)

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		Number	Kind Code ² (If known)			
M ₁		5,581,758		Burnett et al.	12-03-1996	(text provided on CD-ROM)
M ₁		5,584,024		Shwartz	12-10-1996	(text provided on CD-ROM)
M ₁		5,594,899		Knudsen et al.	01-14-1997	(text provided on CD-ROM)
M ₁		5,598,559		Chaudhuri	01-28-1997	(text provided on CD-ROM)
M ₁		5,600,831		Levy et al.	02-04-1997	(text provided on CD-ROM)
M ₁		5,659,728		Bhargava et al.	08-19-1997	(text provided on CD-ROM)
M ₁		5,701,455		Bhargava et al.	12-23-1997	(text provided on CD-ROM)
M ₁		5,724,575		Hoover et al.	03-03-1998	(text provided on CD-ROM)

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M _n		5,729,730		Wlaschin et al.	12-17-1998	(text provided on CD-ROM)
M _n		5,734,884		Eberhard et al.	03-31-1998	(text provided on CD-ROM)
M _n		5,765,147		Mattos et al.	06-09-1998	(text provided on CD-ROM)
M _n		5,774,692		Boyer et al.	06-30-1998	(text provided on CD-ROM)
M _n		5,778,355		Boyer et al.	07-07-1998	(text provided on CD-ROM)
M _n		5,812,840		Shwartz	09-22-1998	(text provided on CD-ROM)
M _n		5,822,751		Gray et al.	10-13-1998	(text provided on CD-ROM)
M _n		5,826,077		Blakeley et al.	10-20-1998	(text provided on CD-ROM)

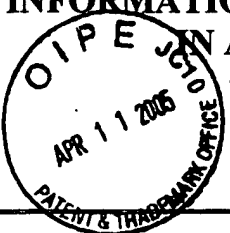
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Mn		5,832,485		Chaudhry	11-03-1998	(text provided on CD-ROM)
Mn		5,848,405		Norcott	12-08-1998	(text provided on CD-ROM)
Mn		5,873,093		Williamson et al.	02-16-1999	(text provided on CD-ROM)
Mn		5,875,447		Goel et al.	02-23-1999	(text provided on CD-ROM)
Mn		5,897,632		Dar et al.	04-27-1999	(text provided on CD-ROM)
Mn		5,950,210		Nelson	09-07-1999	(text provided on CD-ROM)
Mn		5,956,706		Carey et al.	09-21-1999	(text provided on CD-ROM)
Mn		5,960,426		Pirahesh et al.	09-28-1999	(text provided on CD-ROM)

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Mn		5,960,427		Goel et al.	09-28-1999	(text provided on CD-ROM)
Mn		5,963,933		Cheng et al.	10-05-1999	(text provided on CD-ROM)
Mn		5,970,482		Pham et al.	10-19-1999	(text provided on CD-ROM)
Mn		5,974,407		Sacks	10-26-1999	(text provided on CD-ROM)
Mn		5,974,416		Anand et al.	10-26-1999	(text provided on CD-ROM)
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Mn		5,978,791		Farber et al.	11-02-1999	(text provided on CD-ROM)
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M _n		5,991,754		Raitto et al.	11-23-1999	(text provided on CD-ROM)
M _n		6,003,022		Eberhard et al.	12-14-1999	(text provided on CD-ROM)
M _n		6,006,216		Griffin et al.	12-21-1999	(text provided on CD-ROM)
M _n		6,023,695		Osborn et al.	02-08-2000	(text provided on CD-ROM)
M _n		6,032,144		Srivastava et al.	02-29-2000	(text provided on CD-ROM)
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M _n		6,108,651		Guha	08-22-2000	(text provided on CD-ROM)
M _n		6,125,360		Witkowski et al.	09-26-2000	(text provided on CD-ROM)

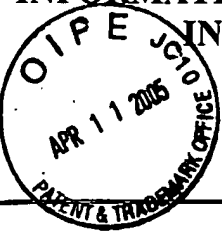
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M ₁		6,134,543		Witkowski et al.	10-17-2000	(text provided on CD-ROM)
M ₂		6,199,063	B1	Colby et al.	03-06-2001	(text provided on CD-ROM)

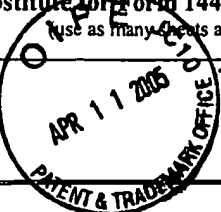
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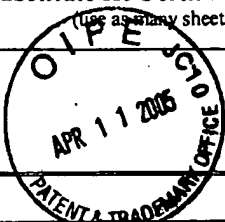
Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 50277-1755	Application Number: 10/006,605
		First Named Inventor: Wayne Smith	
		Filing Date: December 5, 2001	
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Mn		http://www.research.att.com/conf/vldb98/program.html , Mar. 2001	
Nn		http://www.research.att.com/conf/vldb98 , Mar. 2001.	
Mn		Bello et al., "Materialized Views in Oracle", VLDB '98, Proceedings of 24th International Conference on Very Large Data Bases, Aug. 24-27, 1998, New York City, New York, USA, pp. 659-664.	
Mn		Tanjar et al., "Aggregate-join query processing in parallel database systems"; May 14-17, 2000; High Performance Computing in the Asia-Pacific Region, 2000, Proceedings, The Fourth International Conference/Exhibition on, vol. 2, pp. 824-829.	
Mn		Proietti et al., "Analysis of range queries and self-spatial join queries on real region datasets stored using an R-tree"; Sep.-Oct., 2000; Knowledge and Data Engineering, IEEE Transaction, vol. 12, Issue 5, pp. 751-762.	
Mn		Najjar et al., "Cardinality estimation of distributed join queries"; Sep. 1-3, 1999; Database and Expert Systems Applications, 1999, Proceedings, Tenth International Workshop on, pp. 66-70.	
Mn		Chaudhuri, Surajit et al., "Optimizing Queries with Materialized Views", Proceedings of the Eleventh International Conference on Data Engineering, Mar. 6-10, 1995, pp. 190-200.	
Mn		Gopalkrishnan, Vivekanand et al., "Issues of Object-Relational View in Data Warehousing Environment", 1998 IEEE International Conference on Systems, Man, and Cybernetics, Oct. 11-14, 1998, vol. 3, pp. 2732-2737.	
Mn		Kuno, Harumi et al., "Augmented Inherited Multi-Index Structure for Maintenance of Materialized Path Query Views", Proceedings of the Sixth International Conference on Research Issues in Data Engineering, Feb. 26-27, 1996, pp. 128-137.	

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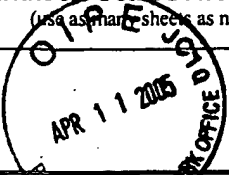
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		First Named Inventor: Wayne Smith	
		Filing Date: December 5, 2001	
OTHER ART - NO PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation ²
M _n		Segev, Arie et al., "Maintaining Materialized Views in Distributed Databases", Proceedings of the Fifth International Conference on Data Engineering, Feb. 6-10, 1989, pp. 262-270.	
M _n		Bhargava, Gautam et al., "Hypergraph based reorderings of outer join queries with complex predicates", Proceedings of the 1995 ACM SIGMOD International Conference on Management of Data and Symposium on Principles of Database Systems, May 22-25, 1995, AC	
M _n		Bhargava, Gautam et al., "Efficient processing of outer joins and aggregate junctions", Proceedings of the Twelfth International Conference Data Engineering, 1996., 26-Feb. - 1 March 1996, pp 441-449.	
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M _n		Ross, Kenneth et al., "Materialized view maintenance and integrity constraint checking: trading space for time", Proceedings of the 1996 ACM SIGMOD international conference on Management of data, June 3-6, 1996, pp 447-458.	
M _n		O'Neil et al., "Multi-Table Joins Through Bitmapmed Join Indices", SIGMOD Record, Vol. 24, No. 3, Sep 1995, pp 8-11.	
M _n		Yan, Weipeng et al., "Performing Group-By before Join", Proceedings of the 10 th International Conference on Data Engineering, 1994, 14-18 Feb. 1994, pp 89-100.	

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Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation ²
Mn		Lee, Byung Suk et al., "Outer joins and filters for instantiating objects from relational databases through views", IEEE Transactions on Knowledge and Data Engineering, Feb 1994, Vol. 6, Issue 1, pp 108-119	
Mn		Lo, Ming-Ling et al., "Spatial Hash-Joins", Proceedings of the 1996 ACM SIGMOD International Conference on Management of Data, 1996, pp 247-258.	
Mn		Marek, Robert et al., "TID Hash Joins", Proceedings of the third international conference in Information and knowledge management, 1994, No 2-, Dec 2, 1994, pp 42-49.	
Mn		Mishra, Priti et al., "Join Processing in Relational Databases", ACM Computing Surveys, Vol. 24, No. 1, March 1992, pp 63-113.	
Mn		Liu et al., "Derivation of incremental for nested relations", Database Conference, 2001, ADC 2001, Proceedings, 12th Australasian, Jan. 2001, pp. 76-82.	
Mn		Moro et al., "Incremental maintenance of multi-source views", Database Conference, 2001, ADC 2001, Proceedings, 12th Australasian, Jan. 2001, pp. 13-20.	
Mn		Ling et al., "A model for evaluating materialized view maintenance algorithms", Web Information Systems Engineering, 2000, Proceedings of the First International Conference on, vol. 1, Jun. 2000, pp. 374-382.	
Mn		Jajoda et al., "Polyinstantiation integrity in multilevel relations"; May 7-9, 1990; Research in Security and Privacy, 1990, Proceedings, 1990 IEEE Computer Society Symposium on, pp. 104-115.	
Mn		Strocker et al., "Integrating semi-join-reducers into state-of-the-art query processors"; Apr. 2-6, 2001; Data Engineering 2001, Proceedings 17th International Conference on, pp. 575-584.	

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